



PATENT  
Docket No. 00SC048US7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: John A. Higgins

Serial No.: 09/676,142

Examiner: Benny T. Lee

Filed: September 29, 2000

Art Unit: 2817

Title: PHASE SHIFTING WAVEGUIDE WITH ALTERABLE IMPEDANCE  
WALLS AND MODULE UTILIZING THE WAVEGUIDES FOR BEAM PHASE  
SHIFTING AND STEERING

Assistant Commissioner for Patents  
Washington, D.C. 20231

AMENDMENT AFTER ALLOWANCE

Sir:

The Notice of Allowance was issued in this matter on  
April 9, 2003. Kindly amend the above application as  
follows:

Specification

Replace the paragraph on page 9, line 26 to page 10, line  
4, with the following:

In this example, the two curves intersect at 44GHz  
(point 40 in the graph). Thus, forming the waveguide with a  
resonant frequency of 44GHz will allow the waveguide to  
transmit a 44 GHz signal as if propagating in free space.  
Changes in the impedance structure's resonant frequency  
changes the signal's propagation constant. Due to the near-  
vertical slope of curve 32 at lower frequencies and its  
near-horizontal slope at higher frequencies, increasing the  
structure's resonant frequency results in only small  
changes in the signals propagation constant, while reducing  
the resonant frequency causes a significant change in the  
beam's propagation constant.

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